



by **STRONGWELL**

TECHNICAL DATA SHEET

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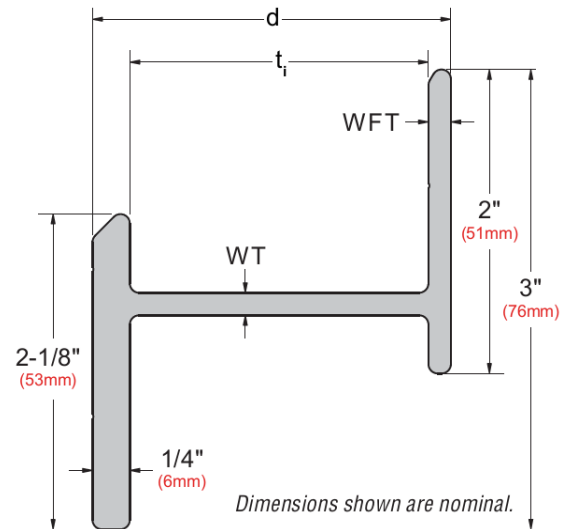
Pultruded FRP Cladding Attachment Support System

1. Product Description:

STRONGIRT® continuous insulation (CI) cladding attachment support system is an all-FRP (fiberglass) pultruded composite made of custom fire-retardant resin system and unique laminate design to offer superior pull out strength, excellent thermal efficiency, and the ability to work with any standard insulation. STRONGIRT also offers self-draining weep holes to clear rainwater.

2. Dimensions:

STRONGIRT profiles are available in various depths to accommodate insulations of thickness 1" to 6" in ½" increments and 8".



Insulation Thickness, t_i	STRONGIRT® Depth (nom.), d	Web Thickness (nom.), WT	Wall Flange Thickness (nom.), WFT	Approx. Weight, lbs./ft (kg/m)
1.0" (25mm)	1.4" (36mm)	0.15" (4mm)	0.15" (4mm)	0.79 (1.18)
1.5" (38mm)	1.9" (48mm)	0.15" (4mm)	0.15" (4mm)	0.86 (1.28)
2.0" (51mm)	2.4" (61mm)	0.15" (4mm)	0.15" (4mm)	0.90 (1.34)
2.5" (64mm)	2.9" (74mm)	0.15" (4mm)	0.15" (4mm)	0.96 (1.43)
3.0" (76mm)	3.4" (86mm)	0.15" (4mm)	0.15" (4mm)	1.02 (1.52)
3.5" (89mm)	3.9" (99mm)	0.15" (4mm)	0.15" (4mm)	1.08 (1.61)
4.0" (102mm)	4.4" (112mm)	0.15" (4mm)	0.15" (4mm)	1.14 (1.70)
4.5" (114mm)	4.9" (124mm)	0.15" (4mm)	0.15" (4mm)	1.20 (1.79)
5.0" (127mm)	5.4" (137mm)	0.15" (4mm)	0.15" (4mm)	1.27 (1.89)
5.5" (140mm)	5.9" (150mm)	0.15" (4mm)	0.15" (4mm)	1.33 (1.98)
6.0" (152mm)	6.4" (163mm)	0.15" (4mm)	0.15" (4mm)	1.39 (2.07)
4.0" Ultra (102mm)	4.5" (114mm)	0.25" (6mm)	0.25" (6mm)	1.65 (2.46)
5.0" Ultra (127mm)	5.5" (140mm)	0.25" (6mm)	0.25" (6mm)	1.84 (2.74)
5.5" Ultra (140mm)	6.0" (152mm)	0.25" (6mm)	0.25" (6mm)	1.94 (2.89)
6.0" Ultra (152mm)	6.5" (165mm)	0.25" (6mm)	0.25" (6mm)	2.04 (3.04)
8.0" Ultra (203mm)	8.5" (216mm)	0.25" (6mm)	0.25" (6mm)	2.52 (3.75)



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3. Properties:

Property	Test Method	Average Ultimate Values*
Tensile Strength (LW)	ASTM D638	60,657 psi (418 N/mm ²)
Tensile Modulus (LW)	ASTM D638	3.42 x 10 ⁶ psi (23.58 x 10 ³ N/mm ²)
Short Beam Shear Strength (LW)	ASTM D2344	4,626 psi (31.9 N/mm ²)
Screw Pullout Load*	ASTM D1761	865 lbf (392 kgf)
Flammability Characteristics†	ASTM E84	Flame Spread: Class A
		Smoke Density: Class A
	NFPA 285	Passed
Thermal Conductivity*	ASTM E1530	2.56 BTU-in/ft ² -Hr/°F (0.367 W(m °K))
Bearing load	ASTM D5961 (Procedure A)	1344 lb (609.6 kgf)
Screw Head Pull-Through Load*	ASTM D7332 (Procedure B)	909 lb (412 kgf)

* Tested using ¼" # 14 external hex head self-drilling screws.

† Tested as an assembly of STRONGGIRT and insulation. Test reports available upon request.

+ Typical value

All the values in the above table are ultimate tested values. An appropriate factor of safety shall be used by the designer for all design values.